KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054. Tel.: 23378383, 23375326,
E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

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Report No. : KTH/ST/0818-1296a/2014-2015 **Date: 21.07.2014**

TEST REPORT ON STEEL BARS

Name of the Customer* : **The Assistant Executive Engineer,**
Peenya Industrial Area Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Dining hall in Nagasandra school in ward No.39 Chokkasandra.

Name of Contractor* : Mr. A.G Prabhakar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 16.07.2014.

Nature of Sample* : Reinforcement steel – 8mm, 10mm, 12mm & 16mm

Technical Reference : Tensile IS: 1786 – 2008 & IS: 1608–1995 (Reaffirmed–2000)
Bend & Re-bend IS: 1786 – 2008 & IS: 1599 - 1985 (Reaffirmed–2000)

Grade of Steel* : Fe-500.

TENSILE TEST :

Dia (mm)	8	10	12	16	Limits as per IS : 1786-2008, Gr. Fe 500
Weight / unit length (kg/m)	0.379	0.575	0.861	1.593	8mm – 0.367 Min 10mm – 0.574 Min 12mm – 0.844 Min 16mm – 1.501 Min
Yield Stress (N/mm2)	517.52	535.03	548.48	517.52	500 Min
Tensile Strength (N/mm2)	617.04	624.20	619.25	617.04	10% More than actual 0.2% proof stress but not less than 545 N/mm2
% Elongation (on 5.65 □AG.L)	20.0	22.0	21.6	20.0	12.0 Min.

BEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	8	4 dia	*No cracks observed. Passes the test.*
2.	*10*	*4 dia*	*No cracks observed. Passes the test.*
3.	*12*	*4 dia*	*No cracks observed. Passes the test.*
4.	*16*	4 dia	*No cracks observed. Passes the test*

REBEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	8	5 dia	*No cracks observed. Passes the test.*
2.	*10*	*5 dia*	*No cracks observed. Passes the test.*
3.	*12*	*7 dia*	*No cracks observed. Passes the test.*
4.	*16*	7 dia	*No cracks observed. Passes the test*

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

AEW 39

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಪೀಣ್ಯ ಕೈಗಾರಿಕಾ ಪ್ರದೇಶ ಉಪವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

(SREENIVASA.C.)
TECHNICAL MANAGER

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Report No. : KTH/CEMENT/0818-1294a/2014-2015 **Date: 23.07.2014**

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer* : **The Assistant Executive Engineer,**
Peenya Industrial Area Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Dining hall in Nagasandra school in ward No.39 Chokkasandra.

Name of Contractor* : Mr. A.G Prabhakar, Bangalore.

Source of Sample : Supplied by the Customer.

Type of Cement* : Ordinary Portland cement (OPC)

Brand of Cement* : Bharthi 53 Grade.

Sample Received on : 16.07.2014.

Period of Test : 16.07.2014 to 23.07.2014.

Technical Reference : IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	27.5 %	Not specified	-
2	Initial setting time	183 minutes	Shall not be less than 30 minutes	P
3	Final setting time	275 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72 ± 1h (3 days) b.168 ± 2h (7 days) c. 672 ± 4h (28 days)	 28.32 MPa 38.28 MPa T.T.C	 Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	 P P -
5	Fineness (By Blaine's air permeability method)	291.1 m^2/kg	Shall not be less than 225 m^2/kg	P
6	Soundness (Le-chatlier's method)	1.02 mm	Shall not be more than 10 mm	P

P: Passes IS requirement F: Fails IS requirement T.T.C: Test To be Conducted.

*As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

A E W 39

23/7/14 AE W-39

ಸಂಬಂಧಪಟ್ಟ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು

ಪೀಣ್ಯ ಕೈಗಾರಿಕಾ ಪ್ರದೇಶ ಉಪ ವಿಭಾಗ,

ಬೃಹತ್ ಬೆಂಗಳೂರು ಪಾಲಿಕೆ

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Report No. : KTH/C.AGG/0818-1293a/2014-2015 **Date: 21.07.2014**

TEST REPORT ON AGGREGATE
(Fine Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Peenya Industrial Area Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Dining hall in Nagasandra school in ward No.39 Chokkasandra.

Name of Contractor* : Mr. A.G Prabhakar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 16.07.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Fine Aggregate

Sl. No.	Sieve size mm	% Passing	IS : 383 – 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100.0	100	100	100	100	Falls in Zone –II as per table 4 of IS-383 – 1970.
2	4.75	95.3	90 – 100	90 – 100	90 – 100	95 - 100	
3	2.36	90.2	60 – 95	75 – 100	85 – 100	95 - 100	
4	1.18	68.7	30 – 70	55 – 90	75 – 100	90 - 100	
5	0.600	38.9	15 – 34	35 – 59	60 – 79	80 - 100	
6	0.300	8.7	5 – 20	8 – 30	12 – 40	15 to 50	
7	0.150	0.1	0 – 10	0 – 10	0 – 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 – 1970 Stipulations
1.	Materials finer than 75 microns (%) (Deleterious Material)	1.6	Shall not be more than 3.0 %.
2.	Fineness Modulus	2.60	Min - 2.0 Max – 3.5

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

AE W39

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Report No. : KTH/C.AGG/0818-1292a/2014-2015 **Date: 21.07.2014**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Peenya Industrial Area Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Dining hall in Nagasandra school in ward No.39 Chokkasandra.

Name of Contractor* : Mr. A.G Prabhakar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 16.07.2014.

Technical Reference : IS: 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 20mm

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	40	100	100	100	Sample doesn't confirms to IS: Stipulation of 20mm size Aggregate
2	20	82.74	85 to 100	95 to 100	
3	16	39.44	-	-	
4	10	9.76	0 to 20	25 to 55	
5	4.75	0.52	0 to 5	0 to 10	

Sl. No.	Test Conducted	Identification mm	Results %	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	20	8.92	Not specified
2	Elongation Index (%)	20	13.36	Not specified
3	Crushing Value (%)	20	21.3	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

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AE W39
21/7/14
AE W39
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AE W-35

ಮುಖ್ಯಾಧಿಕಾರಿ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

AE W-59

Name of work : Construction of Dining hall in Nagasandra School in ward no-39

Photo

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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COMMUNITY HALL
EXECUTIVE ENGINEER(CIVIL)
PUBLIC WORKS DEPARTMENT

Name of work : Construction of Dining hall in Nagasandra School in ward no-39

Photo

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G.M.MUNIYAPPA
B.E.(ELECT),B.E. (CIVIL)
EXECUTIVE ENGINEER(RTD)
PUBLIC WORKS DEPARTMENT

Name of work : Construction of Dining hall in Nagasandra School in ward no-39

Photo

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